

08/252710

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

6544771

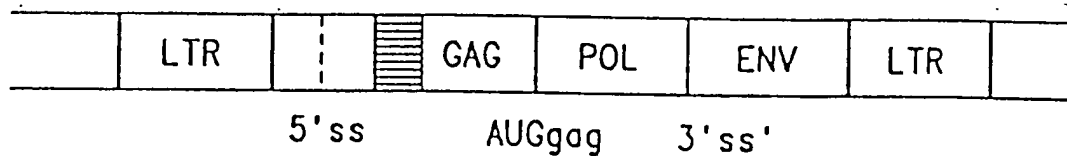


FIG. 1

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FIG. 2A pLJ

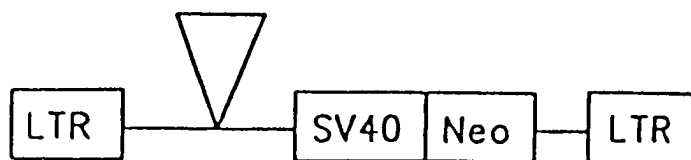


FIG. 2B pEm

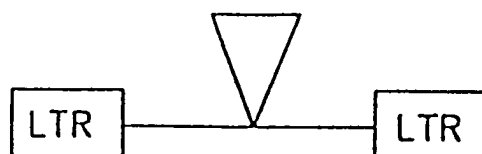


FIG. 2C MFG

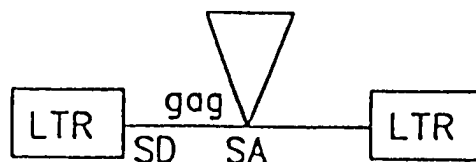
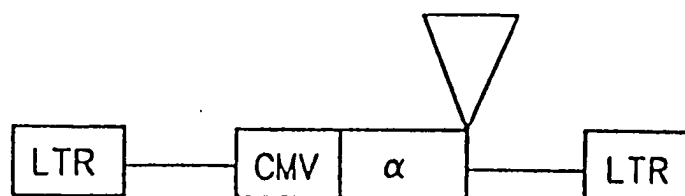


FIG. 2D α SGC



BamHI BamHI

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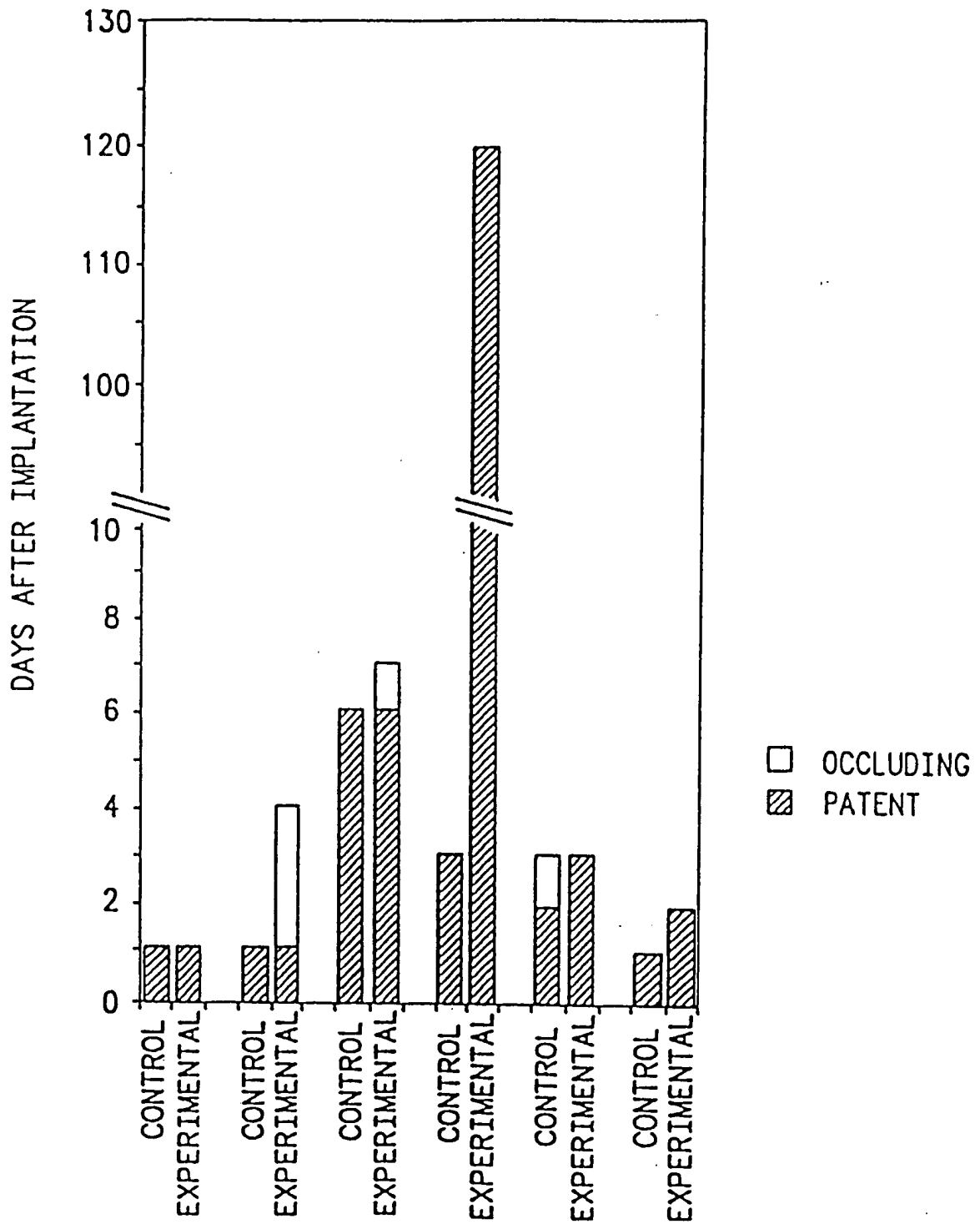


FIG. 5

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	CLASS / SUBCLASS
BY	DATE

FIG. 6A

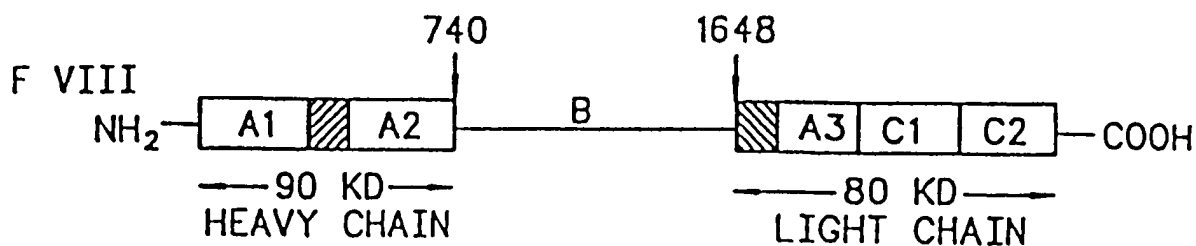


FIG. 6B

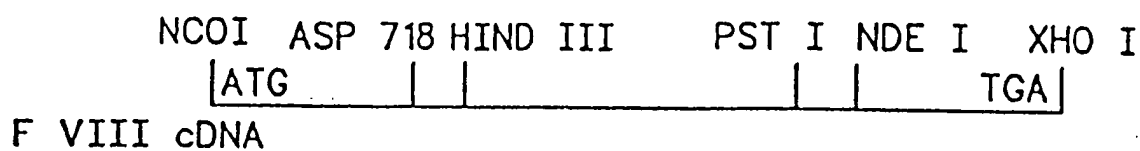


FIG. 6C

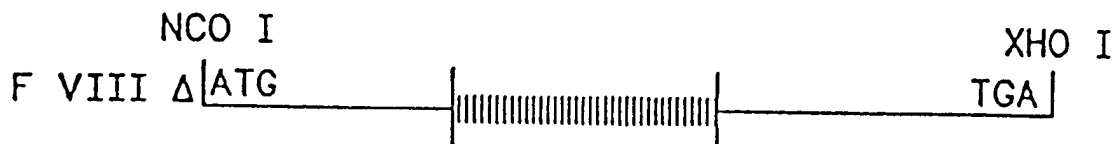
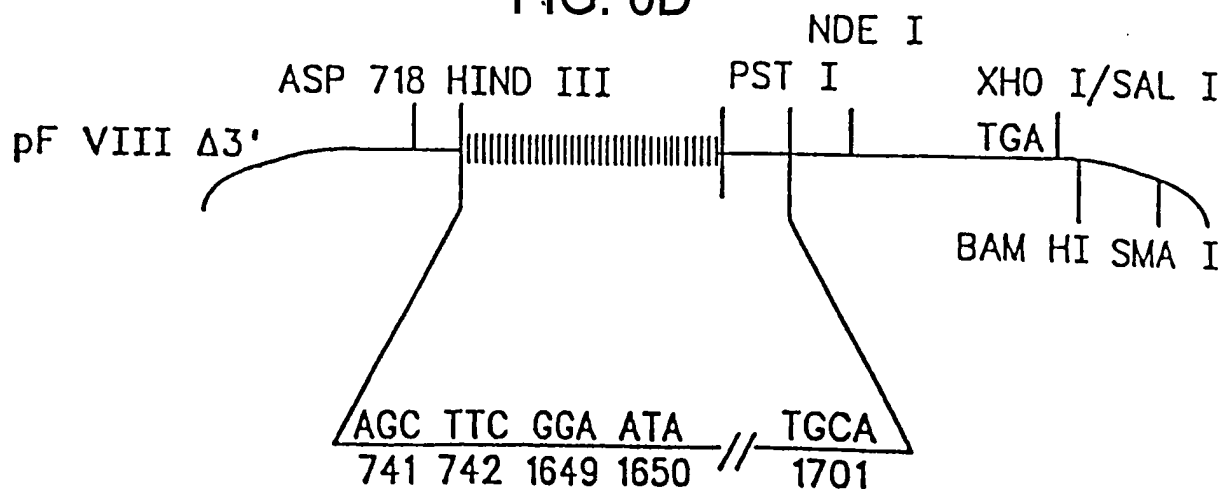


FIG. 6D



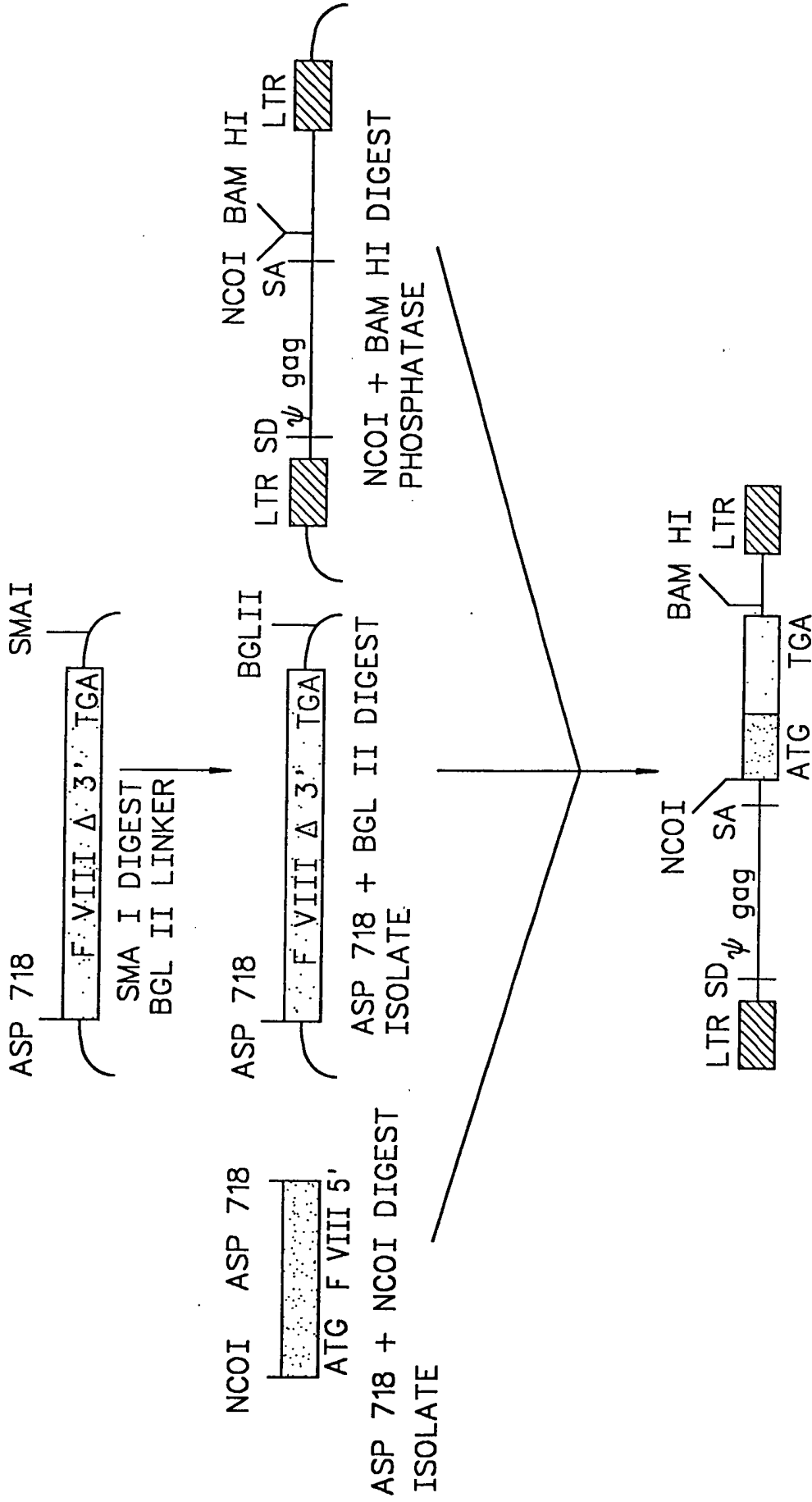
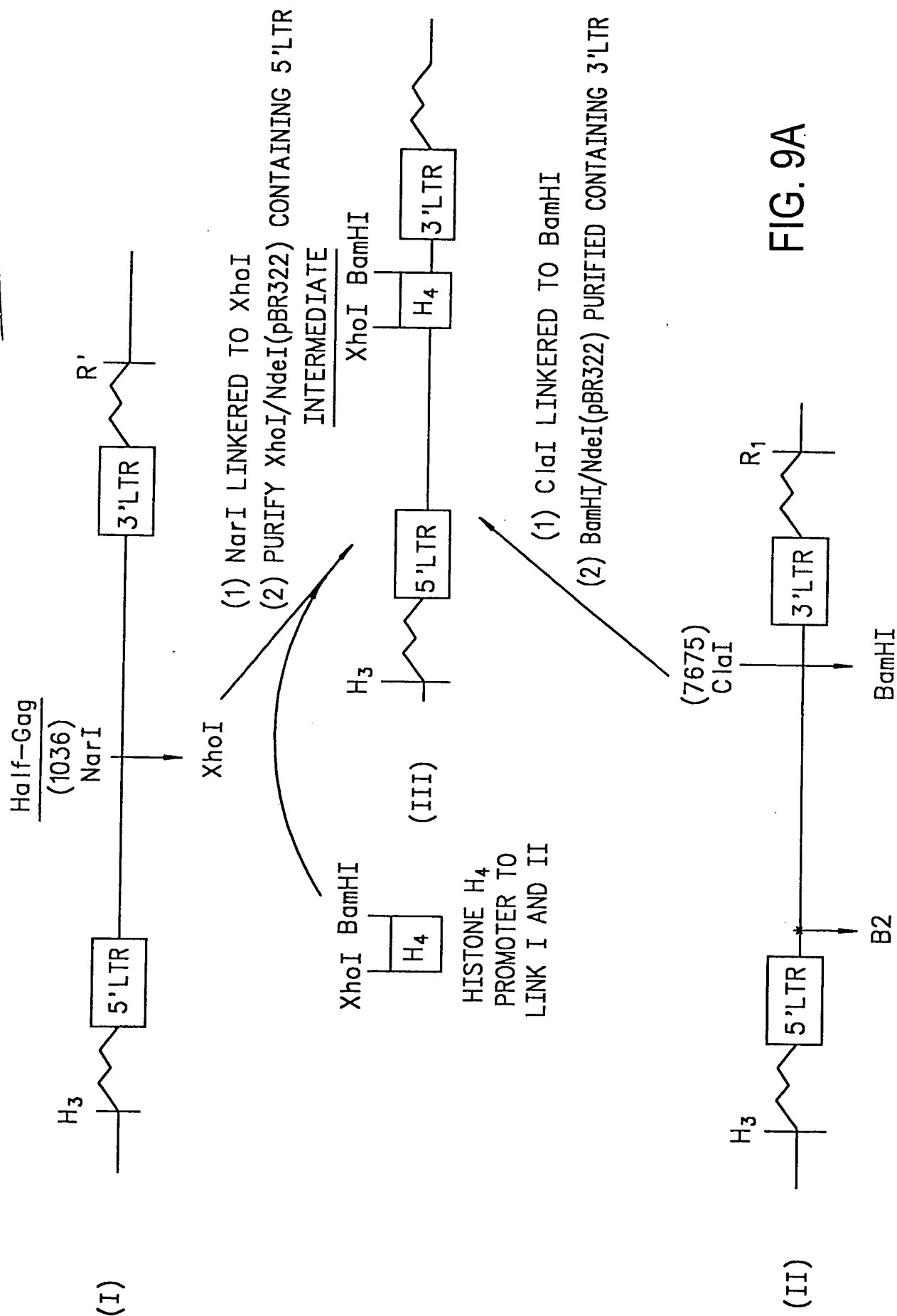


FIG. 7

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	CLASS	SUBCLASS



FIG. 8



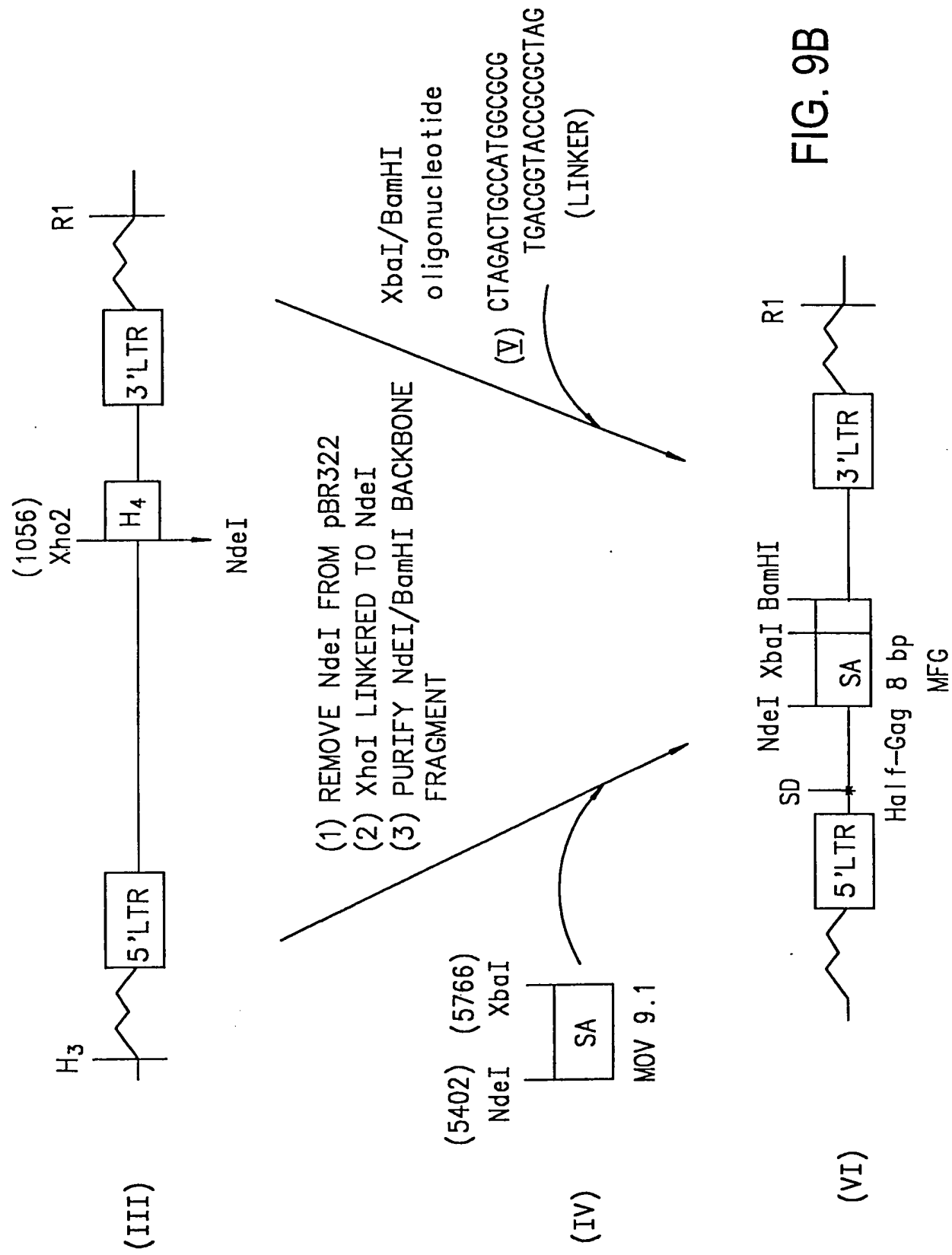
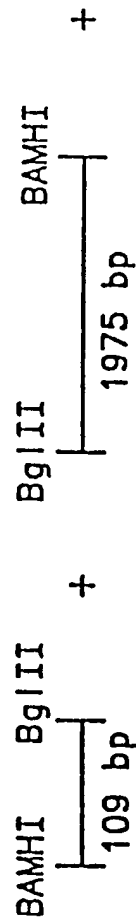
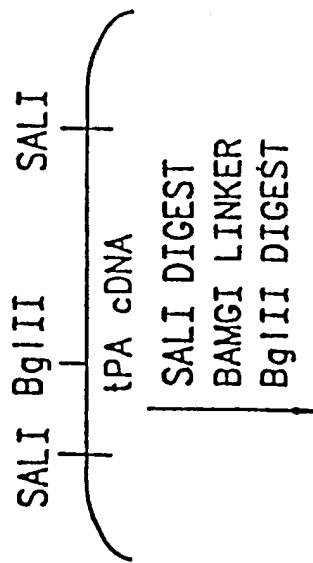


FIG. 9B



tPA oligo

```

5' C A T G G A T G C A A T G A A G A G A G
   NCOI 3' C T A C G T T A C T T C T C
      10
      20
      30
      40
      50
      60
      70
      80
      90
      100
      G C C A
      C G G T C T A G
  
```

BgIII

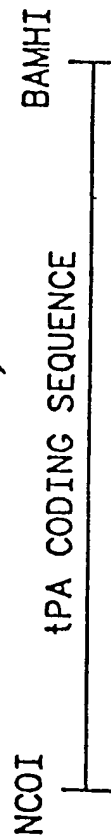
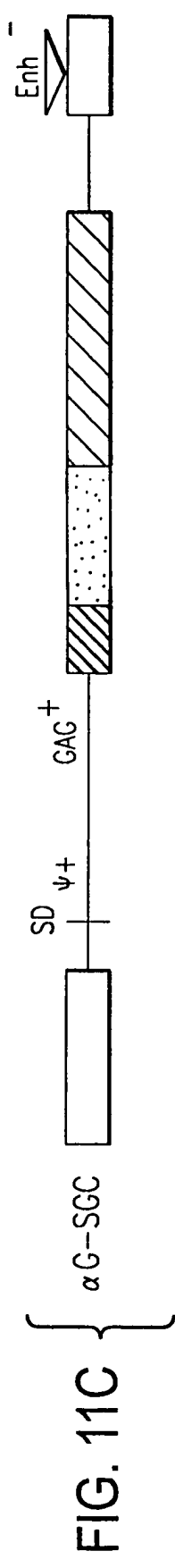
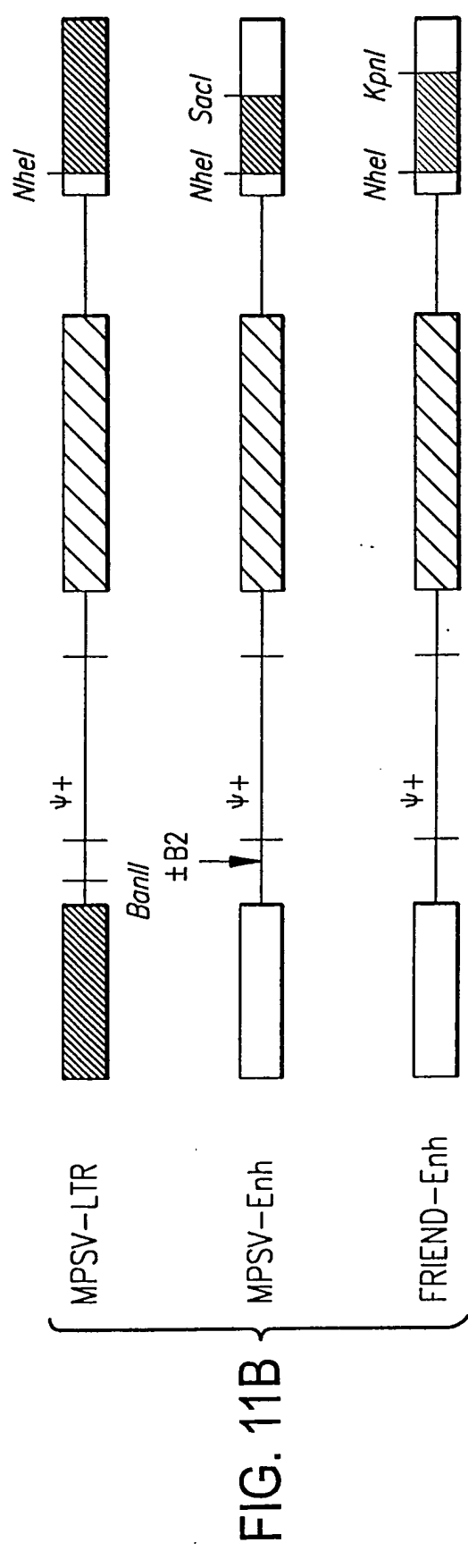
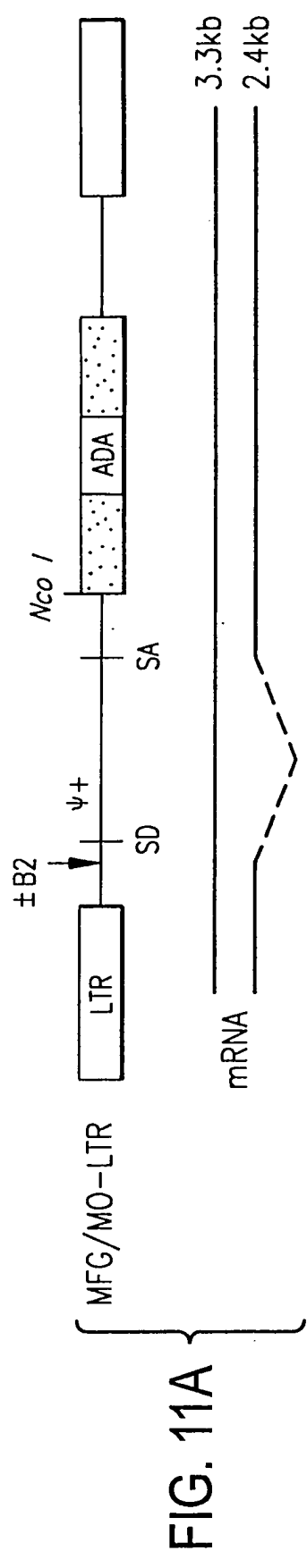


FIG. 10



	3×10^6															5×10^5	n_1	n_2	$n_1 + n_2/N$									
	3×10^6															5×10^5	$r \geq 1$	$1 < r \leq 1/4$										
Mo-LTR 191 DAYS	33	34	35	36	37	38	39	40	41	42	44	45	46	47	48		14	1	15/15									
hADA \blacktriangle mADA \blacktriangle	4.5×10^6																											
Mo-LTR/B2 191 DAYS	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68		14	1	15/15									
	1.5×10^6																											
MPSV-Enh 206 DAYS	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104		13	1	14/15									
	2×10^6																											
MPSV-Enh/B2 207 DAYS	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86		9	6	15/15									
	10^6																											
Fr-Enh 184 DAYS	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29		11	2	13/15									
	1.8×10^6															5×10^5												
MPSV-LTR 177 DAYS	126	127	128	129	130	131	132	133	134	135	136	137	138	141	142	144	145	146	16	2	18/18							
	10^6															5×10^5												
α G-SGC 170 DAYS	108	109	110	111	112	113	114	115	116	117	118	119	120	121	123	124	125	CONTROL	0	4	4/17							
	10^6															5×10^5												
																											</	

FIG. 12A

FIG. 12B

MADA

FIG. 12C

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BY	CLASS
DRAFTSMAN	SUBCLASS

- BM
- SPLEEN
- MAC
- T LYMPH
- B LYMPH

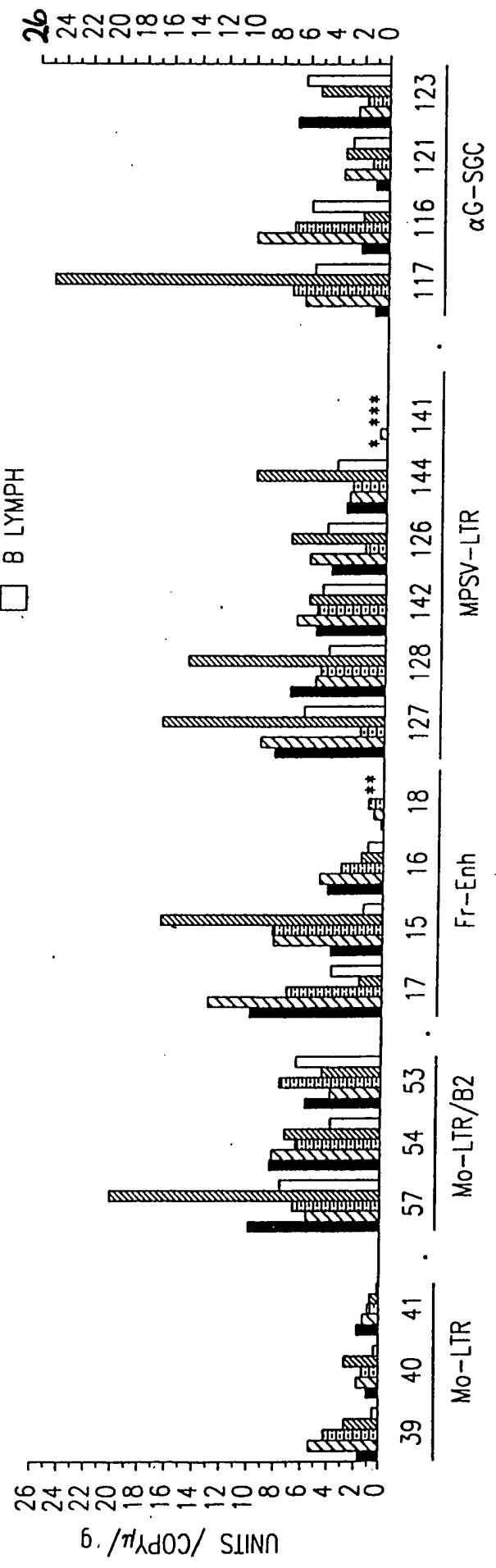


FIG. 13A

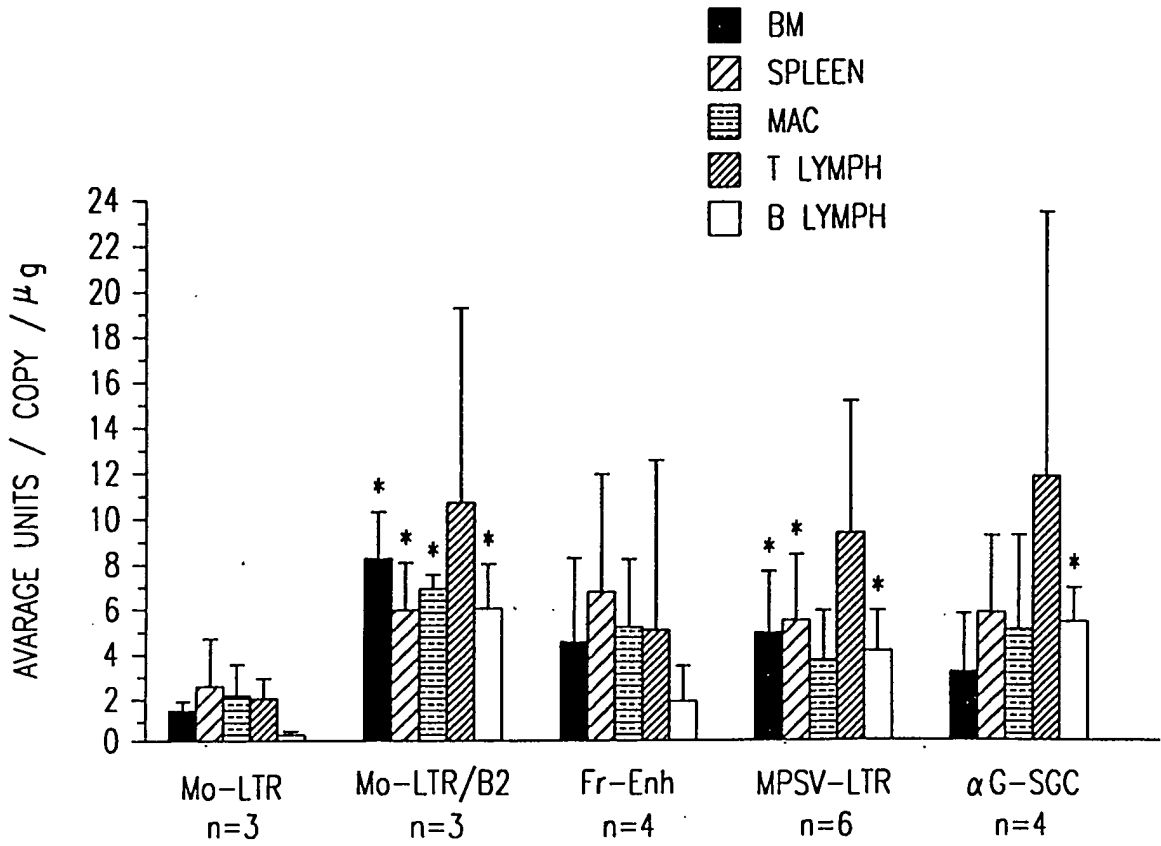
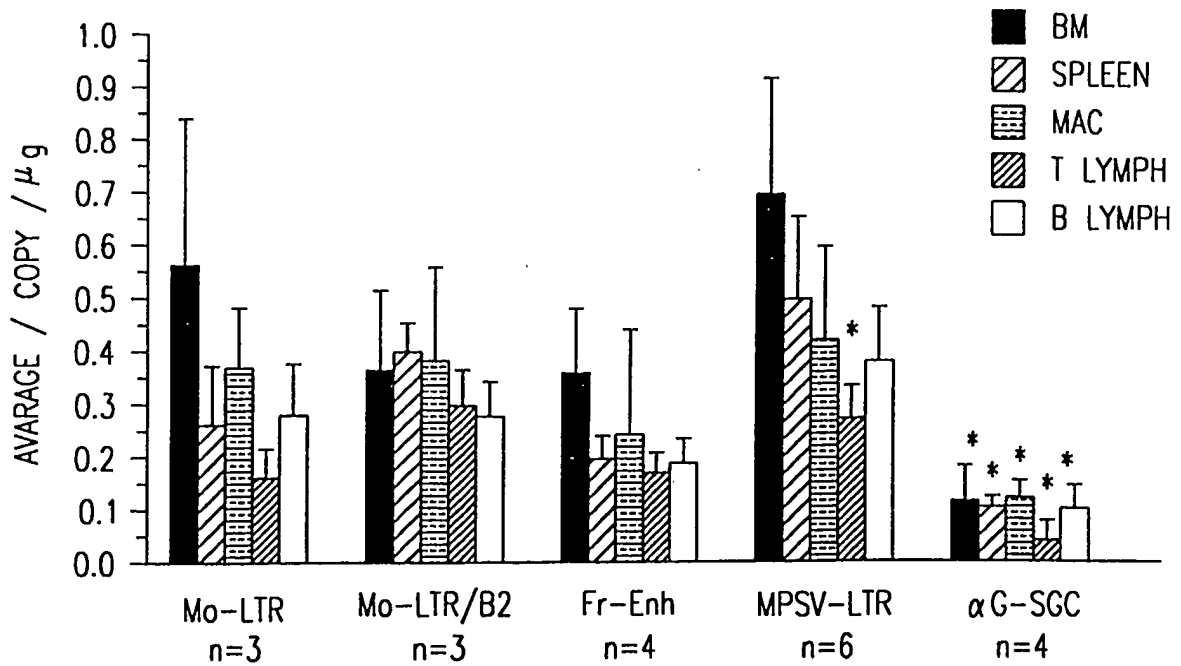


FIG. 13B



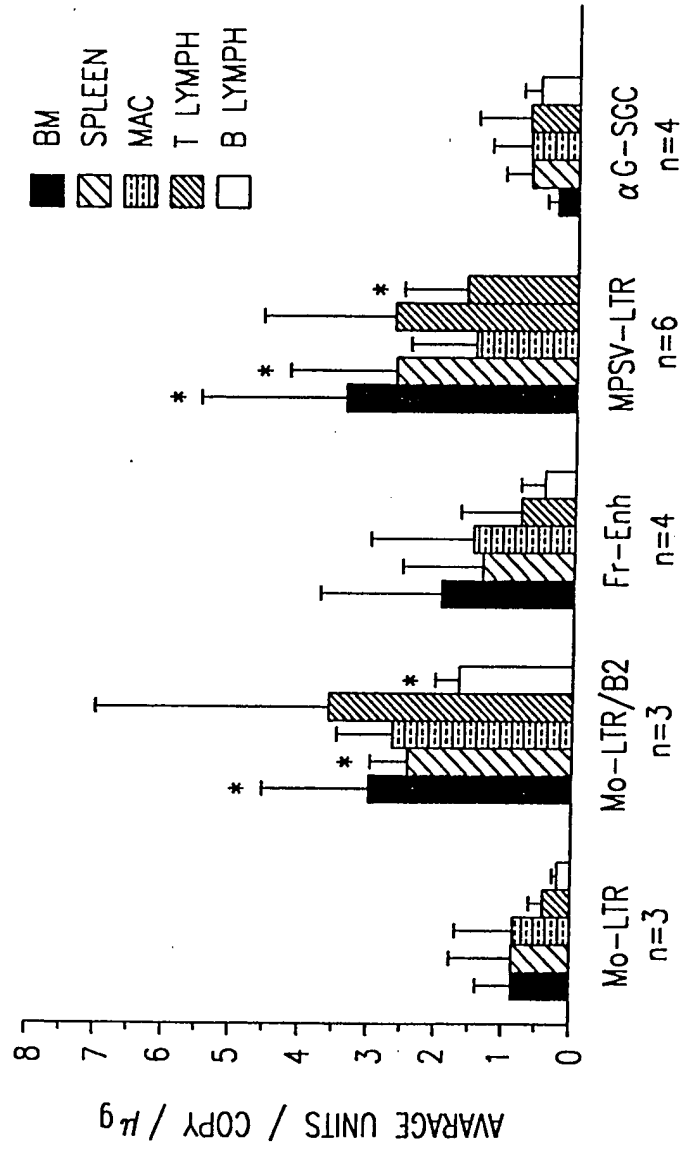


FIG. 13D

MoMuLV: GGTGGAACTGACGAGTTCGGAAACACCCGGCGCAACCCTGGGAGACGTCCAGGGACTTCGGGGGCCGTTTTGTGGCCCGACCT
MFG: XX
MFG-S: XX

MoMuLV: GAGTCCAAAAATCCCGAICGTTTTGGACICTTTGGTGCACCCCTTAGAGGAGGATAIGTGTCTGGTAGGAGACGAGAACC
MFG: XX
MFG-S: XX

MoMuLV: TAAACAGTCCCGCCICCGICTGAATTTTGGTTTGGGACCGAAGCCGGCGCGGTCTTGTCIGCTGCAGCAICGT
MFG: XX
MFG-S: XX

MoMuLV: ICIGTGTGICIGCTGACIGIGTTTICIGIATTTGTCIGAGAATAIGGG-----CCAGACTGTACCACTCCCT
MFG: XX
MFG-S: XX

FIG. 14

FIG. 15

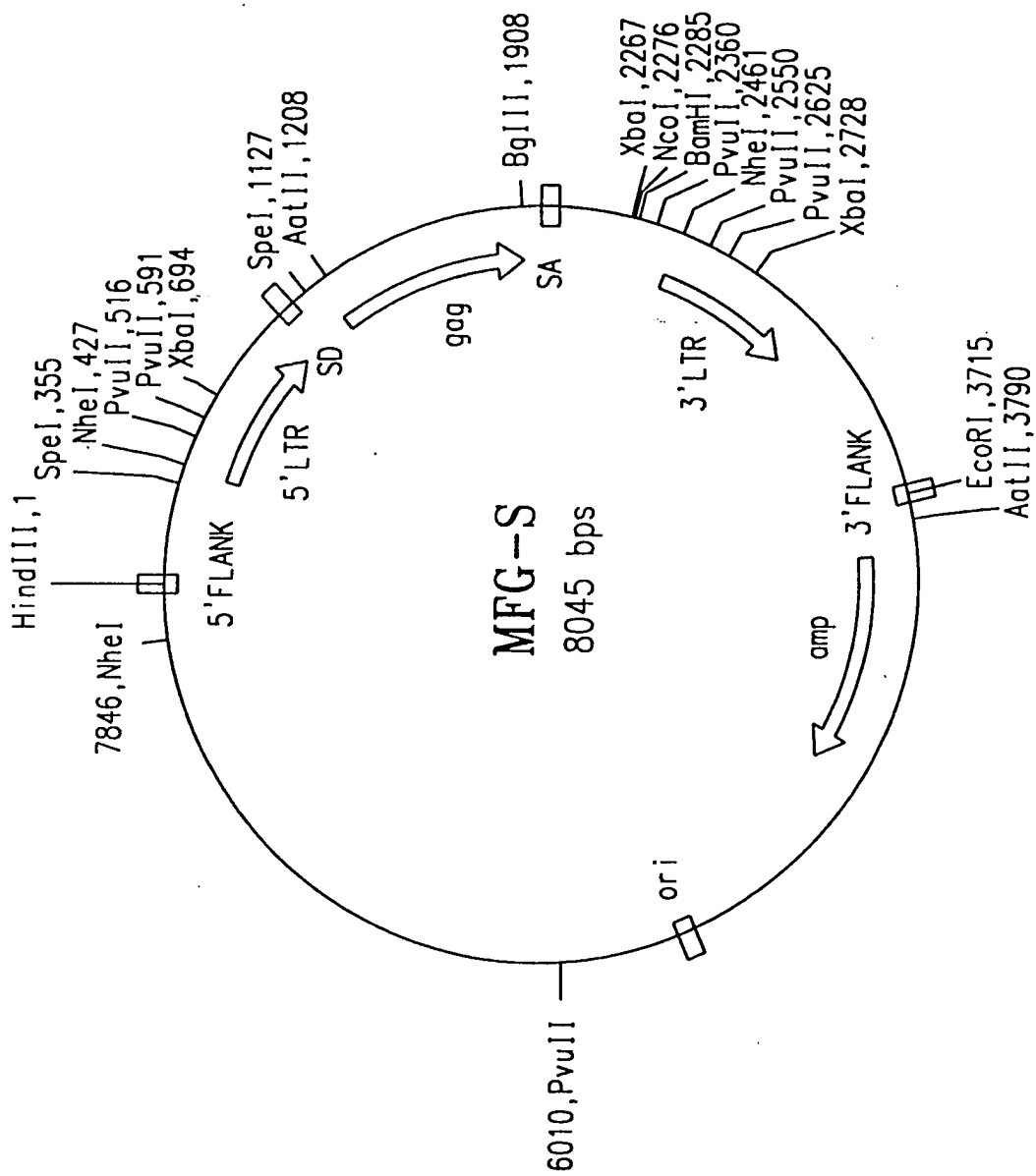


FIG. 16

1 AAGCTTTGCT CTTAGGAGTT TCCTAATACA TCCCAAACCTC AAATATATAA AGCATTTGAC
TTCGAAACGA GAATCCTCAA AGGATTATGT AGGGTTTGAG TTTATATATT TCGTAAACTG

61 TTGTTCTATG CCCTAGGGGG CGGGGGGAAG CTAAGCCAGC TTTTTTTAAC ATTTAAAATG
AACAAGATAC GGGATCCCCC GCCCCCTTC GATTCCGTCTG AAAAAAATTG TAAATTTTAC

121 TTAATTCCAT TTAAATGCA CAGATGTTTT TATTTCATAA GGGTTTCAAT GTGCATGAAT
AATTAAGGTA AAATTTACGT GTCTACAAAA ATAAAGTATT CCCAAAGTTA CACGTACTTA

181 GCTGCAATAT TCCTGTTACC AAAGCTAGTA TAAATAAAAA TAGATAAACG TGGAAATTAC
CGACGTTATA AGGACAATGG TTTGATCAT ATTTATTTTT ATCTATTTGC ACCTTTAATG

241 TTAGAGTTTC TGTCAATTAAC GTTTCCTTCC TCAGTTGACA ACATAAATGC GCTGCTGAGC
AATCTCAAAG ACAGTAATTG CAAAGGAAGG AGTCAACTGT TGTATTTACG CGACGACTCG

301 AAGCCAGTTT GCATCTGTCA GGATCAATTT CCCATTATGC CAGTCATATT AATTACTAGT
TTCGGTCAAA CGTAGACAGT CCTAGTTAAA GGGTAATACG GTCAGTATAA TTAATGATCA

361 CAATTAGTTG ATTTTTATTT TTGACATATA CATGTGAATG AAAGACCCCA CCTGTAGGTT
GTTAATCAAC TAAAAATAAA AACTGTATAT GTACACTTAC TTTCTGGGGT GGACATCCAA

421 TGGCAAGCTA GCTTAAGTAA CGCCATTTTG CAAGGCATGG AAAAATACAT AACTGAGAAT
ACCGTTTCAT CGAATTCATT GCGGTAAAC GTTCCGTACC TTTTATGTA TTGACTCTTA

481 AGAAAAGTTC AGATCAAGGT CAGGAACAGA TGAACAGCT GAATATGGGC CAAACAGGAT
TCTTTTCAAG TCTAGTTCCA GTCCTTGCT ACCTTGTCGA CTTATACCCG GTTGTGCTTA

541 ATCTGTGGTA AGCAGTTCCT GCCCCGGCTC AGGGCCAAGA ACAGATGGAA CAGCTGAATA
TAGACACCAT TCGTCAAGGA CGGGGCCGAG TCCCGTTCT TGTCTACCTT GTCGACTTAT

601 TGGGCCAAAC AGGATATCTG TGTAAGCAG TTCCTGCCCC GGCTCAGGGC CAAGAACAGA
ACCCGGTTTG TCCTATAGAC ACCATTGCTC AAGGACGGGG CCGAGTCCCG GTTCTTGTCT

661 TGGTCCCCAG ATGCGGTCCA GCCCTCAGCA GTTCTAGAG AACCATCAGA TGTTCACAGG
ACCAGGGGTC TACGCCAGGT CGGGAGTCGT CAAAGATCTC TTGGTAGTCT ACAAAGGTCC

721 GTGCCCCAAG GACCTGAAAT GACCCTGTGC CTTATTTGAA CTAACCAATC AGTTCCGCTC
CACGGGGTTC CTGGACTTTA CTGGGACACG GAATAAACTT GATTGGTTAG TCAAGCGAAG

781 TCGCTTCTGT TCGCGCGCTT CTGCTCCCCG AGCTCAATAA AAGAGCCCAC AACCCCTCAC
AGCGAAGACA AGCGCGCGAA GACGAGGGGC TCGAGTTATT TTCTCGGGTG TTGGGGAGTG

FIG. 17A

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841 TCGGGGCGCC AGTCCTCCGA TTGACTGAGT CGCCCGGGTA CCCGTGTATC CAATAAACCC
 AGCCCCGCGG TCAGGAGGCT AACTGACTCA GCGGGCCCAT GGGCACATAG GTTATTTGGG
 901 TCTTGCAGTT GCATCCGACT TGTGGTCTCG CTGTTCTTG GGAGGGTCTC CTCTGAGTGA
 AGAACGTCAA CGTAGGCTGA ACACCAGAGC GACAAGGAAC CCTCCCAGAG GAGACTCACT
 961 TTGACTACCC GTCAGCGGGG GTCTTTTATT TGGGGGCTCG TCCGGGATCG GGAGACCCCT
 AACTGATGGG CAGTCGCCCC CAGAAAGTAA ACCCCCGAGC AGGCCCTAGC CCTCTGGGGA
 1021 GCCCAGGGAC CACCGACCCA CCACCGGGAG GTAAGCTGGC CAGCAACTTA TCTGTGTCTG
 CCGGTCCCTG GTGGCTGGGT GGTGGCCCTC CATTCGACCG GTCGTTGAAT AGACACAGAC
 1081 TCCGATTGTC TAGTGTCTAT GACTGATTTT ATGCGCCTGC GTCGGTACTA GTTAGCTAAC
 AGGCTAACAG ATCACAGATA CTGACTAAAA TACGCGGACG CAGCCATGAT CAATCGATTG
 1141 TAGCTCTGTA TCTGGCGGAC CCGTGGTGA ACTGACGAGT TCGGAACACC CGGCCGCAAC
 ATCGAGACAT AGACCGCCTG GGCACCACCT TGA CTGCTCA AGCCTTGTGG GCCGGCGTTG
 1201 CCTGGGAGAC GTCCAGGGA CTTGGGGGGC CGTTTTTGTG GCCCGACCTG AGTCCTAAAA
 GGACCCTCTG CAGGGTCCCT GAAGCCCCCG GCAAAAACAC CGGGCTGGAC TCAGGATTTT
 1261 TCCCGATCGT TTAGGACTCT TTGGTGCACC CCCCTTAGAG GAGGGATATG TGGTTCTGGT
 AGGGCTAGCA AATCCTGAGA AACCACGTGG GGGGAATCTC CTCCCTATAC ACCAAGACCA
 1321 AGGAGACGAG AACCTAAAAC AGTTCCCGCC TCCGTCTGAA TTTTGTCTT CGGTTTGGGA
 TCCTCTGCTC TTGGATTTTG TCAAGGGCGG AGGCAGACTT AAAAACGAAA GCCAAACCT
 1381 CCGAAGCCGC GCCGCGCGTC TTGTCTGCTG CAGCATCGTT CTGTGTTGTC TCTGTCTGAC
 GGCTTCGGCG CGGCGCGCAG AACAGACGAC GTCGTAGCAA GACACAACAG AGACAGACTG
 1441 TGTGTTTCTG TATTTGTCTG AAAATATGGG CCCGGGCTAG ACTGTTACCA CTCCCTTAAG
 ACACAAAGAC ATAAACAGAC TTTTATACCC GGGCCCGATC TGACAATGGT GAGGGAATTC
 1501 TTTGACCTTA GGTCAGTGA AAGATGTGCA GCGGATCGCT CACAACCACT CGGTAGATGT
 AAAGTGAAT CCAGTGACCT TTCTACAGCT CGCCTAGCGA GTGTTGGTCA GCCATCTACA
 1561 CAAGAAGAGA CGTTGGGTTA CCTTCTGCTC TGCAGAATGG CCAACCTTTA ACGTCGGATG
 GTTCTTCTCT GCAACCCAAT GGAAGACGAG ACGTCTTACC GGTGGAAT TGCAGCCTAC

FIG. 17B

1621 GCCGCGAGAC GGCACCTTTA ACCGAGACCT CATCACCCAG GTTAAGATCA AGGTCTTTTC
CGGCGCTCTG CCGTGGAAAT TGGCTCTGGA GTAGTGGGTC CAATTCTAGT TCCAGAAAAG

1681 ACCTGGCCCG CATGGACACC CAGACCAGGT CCCCTACATC GTGACCTGGG AAGCCTTGGC
TGGACCGGGC GTACCTGTGG GTCTGGTCCA GGGGATGTAG CACTGGACCC TTCGGAACCG

1741 TTTTGACCCC CCTCCCTGGG TCAAGCCCTT TGTACACCCT AAGCCTCCGC CTCCTCTTCC
AAACTGGGG GGAGGGACCC AGTTCGGGAA ACATGTGGGA TTCGGAGGCG GAGGAGAAGG

1801 TCCATCCGCC CCGTCTCTCC CCCTTGAACC TCCTCGTTCC ACCCCGCCTC GATCCTCCCT
AGGTAGGCGG GGCAGAGAGG GGGAACTTGG AGGAGCAAGC TGGGGCGGAG CTAGGAGGGA

1861 TTATCCAGCC CTCACCTCTT CTCTAGGCGC CCCCATATGG CCATATGAGA TCTTATATGG
AATAGGTCCG GAGTGAGGAA GAGATCCGCG GGGGTATACC GGTATACTCT AGAATATACC

1921 GGCACCCCGG CCCCTTGTA ACTTCCCTGA CCCTGACATG ACAAGAGTTA CTAACAGCCC
CCGTGGGGGC GGGGAACATT TGAAGGACT GGGACTGTAC TGTTCTCAAT GATTGTGGG

1981 CTCTCTCCAA GCTCACTTAC AGGCTCTCTA CTTAGTCCAG CACGAAGTCT GGAGACCTCT
GAGAGAGGTT CGAGTGAATG TCCGAGAGAT GAATCAGGTC GTGCTTCAGA CCTCTGGAGA

2041 GGCGGCAGCC TACCAAGAAC AACTGGACCG ACCGGTGGTA CCTCACCCCTT ACCGAGTCGG
CCGCCGTCGG ATGTTCTTG TTGACCTGGC TGGCCACCAT GGAGTGGGAA TGGCTCAGCC

2101 CGACACAGTG TGGGTCCGCC GACACCAGAC TAAGAACCTA GAACCTCGCT GGAAAGGACC
GCTGTGTCAC ACCCAGGCGG CTGTGGTCTG ATTCTTGGAT CTTGGAGCGA CCTTTCCTGG

2161 TTACACAGTC CTGCTGACCA CCCCCACCGC CCTCAAAGTA GACGGCATCG CAGCTTGGAT
AATGTGTCAG GACGACTGGT GGGGGTGGCG GGAGTTTCAT CTGCCGTAGC GTCGAACCTA

2221 ACACGCCGCC CACGTGAAGG CTGCCGACCC CGGGGGTGGG CCATCCTCTA GACTGCCATG
TGTGCGGCGG GTGCACTTCC GACGGCTGGG GCCCCACCT GGTAGGAGAT CTGACGGTAC

2281 GCGCGGATCC GGATTAGTCC AATTTGTTAA AGACAGGATA TCAGTGGTCC AGGCTCTAGT
CGCGCCTAGG CCTAATCAGG TTAAACAATT TCTGTCCTAT AGTCACCAGG TCCGAGATCA

2341 TTTGACTCAA CAATATCACC AGCTGAAGCC TATAGAGTAC GAGCCATAGA TAAAATAAAA
AAACTGAGTT GTTATAGTGG TCGACTTCGG ATATCTCATG CTCGGTATCT ATTTTATTTT

FIG. 17C

2401 GATTTTATTT AGTCTCCAGA AAAAGGGGGG AATGAAAGAC CCCACCTGTA GGTITGGCAA
CTAAAATAAA TCAGAGGTCT TTTTCCCCC TTACTTTCTG GGGTGGACAT CCAAACCGTT

2461 GCTAGCTTAA GTAACCCCAT TTTGCAAGGC ATGGAAAAAT ACATAACTGA GAATAGAGAA
CGATCGAATT CATTGCGGTA AAACGTTCCG TACCTTTTAA TGTATTGACT CTTATCTCTT

2521 GTTCAGATCA AGGTCAGGAA CAGATGGAAC AGCTGAATAT GGGCCAAACA GGATATCTGT
CAAGTCTAGT TCCAGTCCTT GTCTACCTTG TCGACTTATA CCCGGTTTGT CCTATAGACA

2581 GGTAAGCAGT TCCTGCCCCG GCTCAGGGCC AAGAACAGAT GGAACAGCTG AATATGGGCC
CCATTGCTCA AGGACGGGGC CGAGTCCCGG TTCTTGTCTA CCTTGTGCGAC TTATACCCGG

2641 AAACAGGATA TCTGTGGTAA GCAGTTCCTG CCCC GGCTCA GGGCCAAGAA CAGATGGTCC
TTTGTCTAT AGACACCAT CGTCAAGGAC GGGGCCGAGT CCCGGTTCTT GTCTACCAGG

2701 CCAGATGCGG TCCAGCCCTC AGCAGTTTCT AGAGAACCAT CAGATGTTTC CAGGGTGCCC
GGTCTACGCC AGGTGCGGAG TCGTCAAAGA TCTCTTGGTA GTCTACAAAG GTCCACGGG

2761 CAAGGACCTG AAATGACCCT GTGCCTTATT TGAAC TAACC AATCAGTTCG CTTCTCGCTT
GTTCTGGAC TTTACTGGGA CACGAATAA ACTTGATTGG TTAGTCAAGC GAAGAGCGAA

2821 CTGTTGCGGC GCTTCTGCTC CCCGAGCTCA ATAAAAGAGC CCACAACCCC TCACTCGGGG
GACAAGCGCG CGAAGACGAG GGGCTCGAGT TATTTTCTCG GGTGTTGGG AGTGAGCCCC

2881 CGCCAGTCCT CCGATTGACT GAGTCGCCCC GGTACCCGTG TATCCAATAA ACCCTCTTGC
GCGGTCAGGA GGCTAACTGA CTCAGCGGGC CCATGGGCAC ATAGGTTATT TGGGAGAACC

2941 AGTTGCATCC GACTTGTGGT CTCGCTGTTT CTTGGGAGGG TCTCCTCTGA GTGATTGACT
TCAACGTAGG CTGAACACCA GAGCGACAAG GAACCCTCCC AGAGGAGACT CACTAACTGA

3001 ACCCGTCAGC GGGGGTCTTT CACACATGCA GCATGTATCA AAATTAATTT GGTITTTTTT
TGGGCAGTCG CCCCAGAAA GTGTGTACGT CGTACATAGT TTTAATTAAT CCAAAAAA

3061 CTTAAGTATT TACATTAAAT GGCCATAGTA CTTAAAGTTA CATTGGCTTC CTTGAAATAA
GAATTCATAA ATGTAATTTA CCGGTATCAT GAATTTCAAT GTAACCGAAG GAACCTTATT

3121 ACATGGAGTA TTCAGAATGT GTCATAAATA TTTCTAATTT TAAGATAGTA TCTCCATTGG
TGTACCTCAT AAGTCTTACA CAGTATTTAT AAAGATTAAA ATTCTATCAT AGAGGTAACC

3181 CTTTCTACTT TTTCTTTTAT TTTTTTTTGT CCTCTGTCTT CCATTTGTTG TTGTTGTTGT
GAAAGATGAA AAAGAAAATA AAAAAAACA GGAGACAGAA GGTAACAAC AACAACAACA

FIG. 17D

3241 TTGTTTGTIT GTTTGTGGT TGGTTGGTTA ATTTTTTTTT AAAGATCCTA CACTATAGTT
AACAAACAAA CAAACAACCA ACCAACCAAT TAAAAAATAA TTTCTAGGAT GTGATATCAA

3301 CAAGCTAGAC TATTAGCTAC TCTGTAACCC AGGGTGACCT TGAAGTCATG GGTAGCCTGC
GTTTCGATCTG ATAATCGATG AGACATTGGG TCCCACTGGA ACTTCAGTAC CCATCGGACC

3361 TGTTTTAGCC TTCCACATC TAAGATTACA GGTATGAGCT ATCATTTTTG GTATATTGAT
ACAAAATCGG AAGGGTGTAG ATTCTAATGT CCATACTCGA TAGTAAAAAC CATATAACTA

3421 TGATTGATTG ATTGATGTGT GTGTGTGTGA TTGTGTTTGT GTGTGTGANT GTGWANATGT
ACTAACTAAC TAACTACACA CACACACACT AACACAAACA CACACACTNA CACWTNTACA

3481 GTGTATGGNT GTGTGTGAKT GTGTGTATGT ATGNYTGTGT GTGANTGYGT GTGTGTGANT
CACATACCNA CACACACTMA CACACATACA TACNRACACA CACTNACRCA CACACACTNA

3541 GTGCATGTGT GTGTGTGTGA CTGTGTCTAT GTGTATGACT GTGTGTGTGT GTGTGTGTGT
CACGTACACA CACACACACT GACACAGATA CACATACTGA CACACACACA CACACACACA

3601 GTGTGTGTGT GTGTGTGTGT GTGTGTTGTG AAAAAATATT CTATGGTAGT GAGAGCCAAC
CACACACACA CACACACACA CACACAACAC TTTTTTATAA GATACCATCA CTCTCGGTTG

3661 GCTCCGGCTC AGGTGTCAGG TTGGTTTTTG AGACAGAGTC TTTCACTTAG CTTGGAATTC
CGAGGCCGAG TCCACAGTCC AACCAAAAAAC TCTGTCTCAG AAAGTGAATC GAACCTTAAG

3721 TTGAAGACGA AAGGGCCTCG TGATACGCCT ATTTTTATAG GTTAATGTCA TGATAATAAT
AACTTCTGCT TTCCCGGAGC ACTATGCGGA TAAAAATATC CAATTACAGT ACTATTATTA

3781 GGTTCCTTAG ACGTCAGGTG GCACTTTTCG GGGAAATGTG CGCGGAACCC CTATTTGTTT
CCAAAGAATC TGCAGTCCAC CGTGAAAAGC CCCTTTACAC GCGCCTTGGG GATAAACAAA

3841 ATTTTTCTAA ATACATTCAA ATATGTATCC GCTCATGAGA CAATAACCTT GATAAATGCT
TAAAAAGATT TATGTAAGTT TATACATAGG CGAGTACTCT GTTATTGGGA CTATTACGA

3901 TCAATAATAT TGA AAAAGGA AGAGTATGAG TATTCAACAT TTCCGTGTG CCGTTATTCC
AGTTATTATA ACTTTTTCCT TCTCATACTC ATAAGTTGTA AAGGCACAGC GGAATAAGG

3961 CTTTTTTGCG GCATTTTGCC TTCCTGTTTT TGCTCACCCA GAAACGCTGG TGAAAGTAAA
GAAAAACGC CGTAAAACGG AAGGACAAAA ACGAGTGGGT CTTTGGGACC ACTTTCAATT

4021 AGATGCTGAA GATCAGTTGG GTGCACGAGT GGGTTACATC GAACTGGATC TCAACAGCGG
TCTACGACTT CTAGTCAACC CACGTGCTCA CCCAATGTAG CTTGACCTAG AGTTGTGCGC

FIG. 17E

4081 TAAGATCCTT GAGAGTTTTT CCCCCGAAGA ACGTTTTCCA ATGATGAGCA CTTTTAAAGT
ATTCTAGGAA CTCTCAAAAG CGGGGCTTCT TGCAAAAGGT TACTACTCGT GAAAATTTCA

4141 TCTGCTATGT GGCGCGGTAT TATCCCGTGT TGACGCCGGG CAAGAGCAAC TCGGTGCGCG
AGACGATACA CCGCGCCATA ATAGGGCACA ACTGCGGGCC GTTCTCGTTG AGCCAGCGGC

4201 CATACTAT TCTCAGAATG ACTTGTTGA GTACTACCA GTCACAGAAA AGCATCTTAC
GTATGTGATA AGAGTCTTAC TGAACCACT CATGAGTGGT CAGTGTCTTT TCGTAGAATG

4261 GGATGGCATG ACAGTAAGAG AATTATGCAG TGCTGCCATA ACCATGAGTG ATAACACTGC
CCTACCGTAC TGTATTCTC TTAATACGTC ACGACGGTAT TGGTACTCAC TATTGTGACC

4321 GGCCAACTTA CTTCTGACAA CGATCGGAGG ACCGAAGGAG CTAACCGCTT TTTTGCACAA
CCGGTTGAAT GAAGACTGTT GCTAGCCTCC TGGCTTCCTC GATTGGCGAA AAAACGTGTT

4381 CATGGGGGAT CATGTAATC GCCTTGATCG TTGGGAACCG GAGCTGAATG AAGCCATACC
GTACCCCTA GTACATTGAG CGGAAGTAGC AACCTTGGC CTCGACTTAC TTCGGTATGG

4441 AAACGACGAG CGTGACACCA CGATGCCTGC AGCAATGGCA ACAACGTTGC GCAAACCTATT
TTTGCTGCTC GCACTGTGGT GCTACGGACG TCGTTACCGT TGTGCAACG CGTTTGATAA

4501 AACTGGCGAA CTAATTACTC TAGCTTCCCG GCAACAATTA ATAGACTGGA TGGAGGCGGA
TTGACCGCTT GATGAATGAG ATCGAAGGGC CGTTGTTAAT TATCTGACCT ACCTCCGCTT

4561 TAAAGTTGCA GGACCACTTC TCGGCTCGGC CTTTCCGGCT GGCTGGTTTA TTGCTGATAA
ATTTCAACGT CCTGGTGAAG ACCGAGCCG GGAAGGCCGA CCGACCAAAT AACCCTATT

4621 ATCTGGAGCC GGTGAGCGTG GGTCTCGCG TATCATTGCA GCACTGGGGC CAGATGGTAA
TAGACCTCGG CCACTCGCAC CCAGAGCGCC ATAGTAACGT CGTGACCCCG GTCTACCATT

4681 GCCCTCCCGT ATCGTAGTTA TCTACACGAC GGGGAGTCAG GCAACTATGG ATGAACGAAA
CGGGAGGGCA TAGCATCAAT AGATGTGCTG CCCCTCAGTC CGTTGATACC TACTTGCTTT

4741 TAGACAGATC GCTGAGATAG GTCCCTCACT GATTAAGCAT TGGTAACTGT CAGACCAAGT
ATCTGTCTAG CGACTCTATC CACGGAGTGA CTAATTCGTA ACCATTGACA GTCTGGTTCA

FIG. 17F

4801 TTA₁CTCATAT ATACTTTAGA TTGATTTAAA ACTTCATTTT TAATTTAAAA GGATCTAGGT
AATGAGTATA TATGAAATCT AACTAAATTT AGAAGTAAAA ATTAAATTTT CCTAGATCCA

4861 GAAGATCCTT TTTGATAATC TCATGACCAA AATCCCTTAA CGTGAGTTTT CGTTCCACTG
CTTCTAGGAA AA₁ACTATTAG AGTACTGGTT TTAGGGAATT GCACTCAAAA GCAAGGTGAC

4921 AGCGTCAGAC CCCGTAGAAA AGATCAAAGG ATCTTCTTGA GATCCTTTTT TTCTGCCCGT
TCGCAGTCTG GGGCATCTTT TCTAGTTTCC TAGAAGAACT CTAGGAAAAA AAGACGCCGA

4981 AATCTGCTGC TTGCAAACAA AAAAACCACC GCTACCAGCG GTGGTTTGTT TGCCGGATCA
TTAGACGACG AACGTTTGTT TTTTGGTGG CGATGGTCCG CACCAAACAA ACGGCCTAGT

5041 AGAGCTACCA ACTCTTTTTT CGAAGGTAAC TGGCTTCAGC AGAGCGCAGA TACCAAATAC
TCTCGATGGT TGAGAAAAAG GCTTCCATTG ACCGAAGTCG TCTCGCGTCT ATGGTTTATG

5101 TGTCTTCTA GTGTAGCCGT AGTTAGGCCA CCACTTCAAG AACTCTGTAG CACCGCCTAC
ACAGGAAGAT CACATCGGCA TCAATCCGGT GGTGAAGTTC TTGAGACATC GTGGCGGATG

5161 ATACCTCGCT CTGCTAATCC TGTTACCAGT GGCTGCTGCC AGTGGCGATA AGTCGTGTCT
TATGGAGCGA GACGATTAGG ACAATGGTCA CCGACGACGG TCACCGCTAT TCAGCACAGA

5221 TACCGGGTTG GACTCAAGAC GATAGTTACC GGATAAGGCG CAGCGGTCCG GCTGAACGGG
ATGGCCCAAC CTGAGTTCTG CTATCAATGG CCTATTCCGC GTCGCCAGCC CGACTTGCCC

5281 GGGTTCGTGC ACACAGCCCA GCTTGGAGCG AACGACCTAC ACCGAACTGA GATACCTACA
CCCAAGCAGG TGTGTCGGGT CGAACCTCGC TTGCTGGATG TGGCTTGA₁CT CTATGGATGT

5341 GCGTGAGCTA TGAGAAAGCG CCACGCTTCC CGAAGGGAGA AAGGCGGACA GGTATCCGGT
CGCACTCGAT ACTCTTTTCG GGTGCGAAGG GCTTCCCTCT TTCCGCCTGT CCATAGGCCA

5401 AAGCGGCAGG GTCGGAACAG GAGAGCGCAC GAGGGAGCTT CCAGGGGGAA ACGCCTGGTA
TTCGCCGTCC CAGCCTTGTC CTCTCGCGTG CTCCCTCGAA GTCCCCCTT TCGGACCAT

5461 TCTTTATAGT CCTGTCCGGT TTCGCCACCT CTGACTTGAG CGTCGATTTT TGTGATGCTC
AGAAATATCA GGACAGCCCA AAGCGGTGGA GACTGAACTC GCAGCTAAAA AACTACGAG

5521 GTCAGGGGGG CGGAGCCTAT GGAAAAACGC CAGCAACGCG GCCTTTTTTAC GTTTCCTGGC
CAGTCCCCC GCCTCGGATA CCTTTTGGC GTCGTTGCGC CGGAAAAATG CCAAGGACCG

FIG. 17G

5581 CTTTGTGCTG CCTTTGCTC ACATGTTCTT TCCTGCGTTA TCCCCTGATT CTGTGGATAA
GAAAACGACC GGAACGAG TGTACAAGAA AGGACGCAAT AGGGGACTAA GACACCTATT

5641 CCGTATTACC GCCTTTGAGT GAGCTGATAC CGCTCGCCGC AGCCGAACGA CCGAGCGCAG
GGCATAATGG CGGAACTCA CTCGACTATG GCGAGCGGCG TCGGCTTGCT GGCTCGCGTC

5701 CGAGTCAGTG AGCGAGGAAG CGGAAGAGCG CCTGATGCGG TATTTTCTCC TTACGCATCT
GCTCAGTCAC TCGCTCCTTC GCCTTCTCGC GGACTACGCC ATAAAAGAGG AATGCGTAGA

5761 GTGCGGTATT TCACACCGCA TATGGTGAC TCTCAGTACA ATCTGCTCTG ATGCCGCATA
CACGCCATAA AGTGTTGGCT ATACCACGTG AGAGTCATGT TAGACGAGAC TACGGCGTAT

5821 GTTAAGCCAG TATACACTCC GCTATCGCTA CGTGAAGGG TCATGGCTGC GCGGCGACAC
CAATTCGGTC ATATGTGAGG CGATAGCGAT GCACTGACCC AGTACCGACG CCGGGCTGTG

5881 CCGCCAACAC CCGCTGACGC GCCCTGACGG GCTTGTCTGC TCCCGGCATC CGCTTACAGA
GGCGGTTGTG GCGGACTGCG CCGGACTGCC CGAACAGACG AGGGCCGTAG GCGAATGTCT

5941 CAAGCTGTGA CCGTCTCCGG GAGCTGCATG TGTCAGAGGT TTTACCGTC ATCACCAGAA
GTTTCGACACT GGCAGAGGCC CTCGACGTAC ACAGTCTCCA AAAGTGGCAG TAGTGGCTTT

6001 CGCGCGAGGC AGCTGCGGTA AAGCTCATCA CCGTGGTCGT GAAGCGATTG ACAGATGTCT
GCGCGCTCCG TCGACGCCAT TTCGAGTAGT CGCACCAGCA CTTGCTAAG TGTCTACAGA

6061 GCCTGTTTAT CCGCGTCCAG CTCGTTGAGT TTCTCCAGAA CCGTTAATGT CTGGCTTCTG
CGGACAAGTA GCGCGAGGTC GAGCAACTCA AAGAGGTCTT CGCAATTACA GACCGAAGAC

6121 ATAAAGCGGG CCATGTTAAG GGCGGTTTTT TCCTGTTTGG TCACTTGATG CCTCCGTGTA
TATTTGCCCC GGTACAATTG CCGCAAAAAA AGGACAAACC AGTGAAGTAC GGAGGCACAT

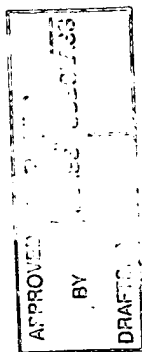
6181 AGGGGGAATT TCTGTTTATG GGGGTAATGA TACCGATGAA ACGAGAGAGG ATGCTCACGA
TCCCCCTTAA AGACAAGTAC CCCCATTACT ATGGCTACTT TGCTCTCTCC TACGAGTGCT

6241 TACGGGTTAC TGATGATGAA CATGCCCGGT TACTGGAACG TTGTGAGGGT AAACAAGTGG
ATGCCCAATG ACTACTACTT GTACGGGCCA ATGACCTTGC AACACTCCA TTTGTTGACC

6301 CCGTATGGAT GCGGCGGGAC CAGAGAAAAA TCACTCAGGG TCAATGCCAG CGCTTCGTTA
GCCATACCTA CGCGGCCCTG GTCTCTTTTT AGTGAGTCCC AGTTACGGTC GCGAAGCAAT

FIG. 17H





6361 ATACAGATGT AGGTGTTCCA CAGGGTAGCC AGCAGCATCC TCGGATGCAG ATCCGGAACA
TATGTCTACA TCCACAAGGT GTCCCATCGG TCGTCGTAGG ACGCTACGTC TAGGCCTTGT

6421 TAATGGTGCA GGGCGCTGAC TTCCGCGTTT CCAGACTTTA CGAAACACGG AAACCGAAGA
ATTACCACGT CCCGCGACTG AAGGCGCAAA GGTCTGAAAT GCTTTGTGCC TTTGGCTTCT

6481 CCATTCAATG TGTGCTCAG GTCGCAGACG TTTTGCAGCA GCAGTCGCTT CACGTTGCTT
GGTAAGTACA ACAACGAGTC CAGCGTCTGC AAAACGTCGT CGTCAGCGAA GTGCAAGCGA

6541 CGCGTATCGG TGATTCATTC TGCTAACCAG TAAGGCAACC CCGCCAGCCT AGCCGGGTCC
GCGCATAGCC ACTAAGTAAG ACGATTGGTC ATTCCGTTGG GCGGTCGGA TCGGCCCAGG

6501 TCAACGACAG GAGCAGATC ATGCCACCC GTGGCCAGGA CCCAACGCTG CCCGAGATGC
AGTTGCTGTC CTCGTGCTAG TACGCGTGGG CACCGGTCCT GGGTTGCGAC GGGCTCTACG

6561 GCCGCGTGCG GCTGCTGGAG ATGGCGGACG CGATGGATAT GTTCTGCCAA GGGTTGGTTT
CGGCGCACGC CGACGACCTC TACCGCCTGC GCTACCTATA CAAGACGGTT CCCAACCAAA

6721 GCGCATTAC AGTTCTCCGC AAGAATTGAT TGGCTCCAAT TCTTGAGTG GTGAATCCGT
CGCGTAAGTG TCAAGAGGCG TTCTTAATA ACCGAGGTTA AGAACCTCAC CACTTAGGCA

6781 TAGCGAGGTG CCGCCGGCTT CCATTAGGT CGAGGTGGCC CGGCTCCATG CACCGCGACG
ATCGCTCCAC GCGCGCCGAA GGTAAGTCCA GCTCCACCGG GCCGAGGTAC GTGGCGCTGC

6841 CAACGCGGGG AGGCAGACAA GGTATAGGGC GGCGCCTACA ATCCATGCCA ACCCGTTCCA
GTTGCGCCCC TCCGTCTGTT CCATATCCCG CCGCGGATGT TAGGTACGGT TGGGCAAGGT

6901 TGTGCTCGCC GAGGCGGCAT AAATCGCCGT GACGATCAGC GGTCCAGTGA TCGAAGTTAG
ACACGAGCGG CTCCGCCGTA TTTAGCGGCA CTGCTAGTCG CCAGGTCAT AGCTTCAATC

6961 GCTGGTAAGA GCCGCGAGCG ATCCTTGAAG CTGTCCCTGA TGGTCGTCAT CTACCTGCCT
CGACCATTCT CCGCGCTCGC TAGGAACTTC GACAGGGACT ACCAGCAGTA GATGGACGGC

7021 GGACAGCATG GCCTGCAACG CGGGCATCCC GATGCCGCGG GAAGCGAGAA GAATCATAAT
CCTGTGCTAC CGGACGTTGC GCGCGTAGGG CTACGGCGGC CTTGCTCTT CTTAGTATTA

7081 GGGGAAGGCC ATCCAGCCTC GCGTCGCGAA CGCCAGCAAG ACGTAGCCCA GCGCGTCGGC
CCCTTCCGG TAGGTCCGAG CGCAGCGCTT GCGGTCGTTT TGCATCGGGT CGCGCAGCCG

7141 CGCCATGCCG GCGATAATGG CCTGCTTCTC GCCGAAACGT TTGGTGGCGG GACCAGTGAC
GCGGTACGGC CGCTATTACC GGACGAAGAG CGGCTTTGCA AACCACCGCC CTGGTCACTG

FIG. 17I

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7201 GAAGGCTTGA GCGAGGGCGT GCAAGATTCC GAATACCGCA AGCGACAGGC CGATCATCGT
CTTCCGAAC TCGTCCCGCA CGTTCTAAGG CTTATGGCGT TCGTGTCCG GCTAGTAGCA

7261 CGCGCTCCAG CGAAAGCGGT CCTCGCCGAA AATGACCCAG AGCGCTGCCC GCACCTGTCC
GCGCGAGGTC GCTTTCGCCA GGAGCGGCTT TTAGTGGGTC TCGCGACGGC CGTGGACAGG

7321 TACGAGTTGC ATGATAAAGA AGACAGTCAT AAGTGGGGCG ACGATAGTCA TGCCCCGGCG
ATGCTCAACG TACTATTTCT TCTGTCAGTA TTCACGGCCG TGCTATCAGT ACGGGGCGCG

7381 CCACCGGAAG GAGCTGACTG GGTGAAGGC TCTCAAGGGC ATCGGTCGAC GCTCTCCCTT
GGTGGCCTTC CTCGACTGAC CCAACTTCCG AGAGTTCCCG TAGCCAGCTG CGAGAGGGAA

7441 ATGCGACTCC TGCATTAGGA AGCAGCCCAG TAGTAGGTTG AGCCCGTTGA GCACCGCCGC
TACGCTGAGG ACCTAATCCT TCGTCGGGTC ATCATCCAAC TCCGGCAACT CGTGGCGGCG

7501 CGCAAGGAAT GGTGCATGCA AGGAGATGGC GCCCAACAGT CCCCCGGCCA CGGGGCCTGC
GCGTTCCTTA CCACGTACGT TCCTCTACCG CGGGTTGTCA GGGGCGCGGT GCCCGGACG

7561 CACCATACCC ACGCCGAAAC AAGCGTCAT GAGCCCGAAG TGGCGAGCCC GATCTTCCCC
GTGGTATGGG TCGGCTTTG TTCGCGAGTA CTCGGGCTTC ACCGCTCGGG CTAGAAGGGG

7621 ATCGGTGATG TCGGCGATAT AGGCGCCAGC AACCGCACCT GTGGCGCCCG TGATGCCGGC
TAGCCACTAC AGCCGCTATA TCCGCGGTCC TTGGCGTGGA CACCGCGGCC ACTACGGCCG

7681 CACGATGCGT CCGGCGTAGA GCGCCACAGG ACGGGTGTGG TCGCCATGAT CGCGTAGTCG
GTGCTACGCA GGCCGCATCT CGCGGTGTCC TGCCACACCC AGCGGTACTA GCGCATCAGC

7741 ATAGTGGCTC CAAGTAGCGA AGCGAGCAGG ACTGGGCGGC GGCCAAAGCG GTCGGACAGT
TATACCCGAG GTTCATCGCT TCGCTCGTCC TGACCCGCGC CCGGTTTCCG CAGCCTGTCA

7801 GCTCCGAGAA CGGGTGGCA TAGAAATTGC ATCAACGCAT ATAGCGCTAG CAGCAGCCA
CGAGGCTCTT GCCACGCGT ATCTTTAACG TAGTTGCGTA TATCGCGATC GTCGTGCGGT

7861 TAGTACTGG CGATGCTGTC GGAATGGACG ATATCCCGCA AGAGGCCCGG CAGTACCGGC
ATCACTGACC GCTACGACAG CCTTACCTGC TATAGGGCGT TCTCCGGGCC GTCATGGCCG

7921 ATAACCAAGC CTATGCCTAC AGCATCCAGG GTGACGGTGC CGAGGATGAC GATGAGCGCA
TATTGGTTCC GATACGGATG TCGTAGGTCC CACTGCCACG GCTCCTACTG CTAATCGCGT

7981 TTGTTAGATT TCATACACGG TGCCTGACTG CGTTAGCAAT TAACTGTGA TAACTACCG
AACAATCTAA AGTATGTGCC ACGGACTGAC GCAATCGTTA AATTGACACT ATTTGATGGC

7041 CATT
GTAAT

FIG. 17J